SUBSTANCE NAME RETRIEVING METHOD BASED ON X-RAY SPECTRUM ANALYSIS

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Abstract of **JP11174005**

PROBLEM TO BE SOLVED: To reduce the number of registered data in each directory so as to shorten a retrieving time by storing information in different directories according to its usage or field and determining the substance after pretreatment, in which x-ray spectrum of a sample is analyzed for finding its composition and concentration. SOLUTION: In an analyzer, selection between an automatic qualification method and a spectrum matching method is carried out for finding a composition. In the automatic qualification method, quantitative calculation is performed by a standardless method, a peak separation method, or an overlap factor method. In the spectrum matching method, spectrum data for matching provided with a desirable quantitative condition in addition to a qualitative result are retained in a file, and from these data, a composition and the quantitative condition are accessed for quantitative calculation. In the matching method, a matching file name is also accessed so as to be used as the data for substance determination. From the sample composition and concentration and the matching file name found from these results, substance determination is carried out on the basis of the determination condition, and the corresponding substance name is accessed.